

## ABSTRACT

A closed cycle refrigeration system in conjunction with specific mixed or multiple component refrigerant fluids to produce temperatures in the range of 230°K to 70°K. The mixed component refrigerant can be blended from flammable or  
5 a non-flammable fluid components based upon the arrangement of the refrigeration equipment and the overall performance requirements for the system. A compressor, an after cooler, an oil separator, filter/dryer, heat exchanger, a throttle device with fixed orifice and an evaporator are arranged in a manner to improve system performance with refrigeration of the present invention or prior art refrigerants.

10 Replaceable additional modules for oil filtration and moisture filtration can be part of the system.